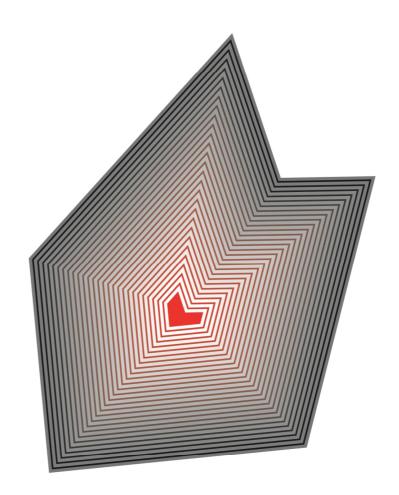
### VOLUME 69, 2016





# PROBLEMS OF EDUCATION IN THE 21st CENTURY



## PROBLEMS OF EDUCATION IN THE 21st CENTURY

Scientific Methodical Center "Scientia Educologica", Lithuania, The Associated Member of Lithuanian Scientific Society, European Society for the History of Science (ESHS) and ICASE (International Council of Associations for Science Education)

The articles appearing in this scientific collection are indexed, listed, and abstracted in:

Index Copernicus

EBSCO: Education Research Complete

Education Research Index Database Coverage List

"Core" coverage

Central & Eastern European Academic Source Database Coverage List (EBSCO-CEEAS)

Cabell Publishing, Inc., Directories of Academic

Journals

JournalSeek

Ulrich's Periodicals Directory / Global Serials

Directory

The Asian Education Index

SOCOLAR (China Educational Publications Import

& Export Corporation)

List of Science Education Journals

John Lamp's IS Pages: ERA journals in a Field of

Research

PECOB (Portal on Central Eastern and Balkan

Europe)

GESIS SocioGuide (Knowledge Base SSEE)

Contemporary Science Association/AAP databases

Electronic Serials in Lithuania

List of Journals Recognized by Polish Ministry of

Science and Higher Education WebQualis (QUALIS/CAPES)

trueserials.com

PubGet

Excellence in Research for Australia ERA (Australian Research Council ARC - Ranking

Journal list)

Zeitschriftendatenbank (ZDB)

Directory of Research Journal Indexing (DRJI)

Academic Keys Sjournals Index

Open Academic Journals Index (OAJI)

Global Impact Factor (GIF) Scientific Indexing Services (SIS)

GIGA Information Centre (Electronic Journals

Library)

Polish Scholarly Bibliography /PBN/ (Polska

Bibliografia Naukowa)

European Reference Index for the Humanities and

the Social Sciences (ERIH PLUS)

ImpactFactor.pl

#### **Publisher**

Scientific Methodical Center "Scientia Educologica", Lithuania, the Associated Member of Lithuanian Scientific Society, the Association of Lithuanian Serials, European Society for the History of Science (ESHS) and International Council of Associations for Science Education (ICASE)

#### **Editor-in-Chief**

Dr., Prof. Vincentas Lamanauskas, Scientific Methodical Centre "Scientia Educologica", Republic of Lithuania

#### **Editorial Board**

Dr., Prof. Boris Aberšek, University of Maribor, Slovenia

Dr. Saleh A. Alabdulkareem, King Saud University, Saudi Arabia

Dr., Prof. Agnaldo Arroio, University of São Paulo, Brazil

Dr. Monica Baptista, University of Lisbon, Portugal

Dr., Prof. Martin Bilek, Hradec Kralove University, Czechia

Dr., Prof. Andris Broks, University of Latvia, Latvia

Dr. Paolo Bussotti, University of Udine, Italy

Dr. Muammer Calik, Karadeniz Technical University, Turkey

Dr., Prof. Janis Gedrovics, Riga Teacher Training and Educational Management Academy, Latvia

Dr., Harun Yilmaz, Scientific and Technological Research Council of Turkey, Turkey

Dr., Angela James, University of Kwazulu - Natal, South Africa

Dr., Prof. Vladimir S. Karapetyan, Armenian State Pedagogical University named after Kh. Abovyan, Armenia

Dr. Kuo-Hung Huang, National Chiayi University, Taiwan

Dr. Milan Kubiatko, University of Zilina, Slovakia

Dr., Prof. Miroslaw Kowalski, University of Zielona Gora, Poland

Dr. Todar T. Lakhvich, Belarusian State Medical University, Republic of Belarus

Dr. Eleonora Melnik, , "Vodlozersky" National park, Republic of Karelia, Russia

Dr., Prof. Danuše Nezvalova, Palacky University, Czechia

Dr., Prof. Yuriy Pelekh, National University of Water Management and Nature Resources Use, Ukraine, Ukraine

Dr., Raffaele Pisano, University of Lille 1, France

Dr. Costin Pribeanu, National Institute for Research and Development in Informatics - ICI Bucuresti, Romania

Dr. Agneta Simeonsdotter Svensson, University of Gothenburg, Sweden

Dr. Uladzimir K. Slabin, University of Oregon, USA

Dr. Laima Railienė, Scientific Methodical Centre "Scientia Educologica", Republic of Lithuania

Dr., Prof. Borislav V. Toshev, Sofia University, Bulgaria

Dr., Prof. Milan Turčani, Constantine the Philosopher University, Slovakia

Dr., Prof. Nicos Valanides, University of Cyprus, Cyprus

Copyright of this volume is the property of Scientific Methodical Centre "Scientia Educologica" and Scientia Socialis, Lithuania. By virtue of their appearance in this open access journal, articles are free to use, with proper attribution, in educational and other non-commercial settings

Index Copernicus (IC<sup>TM</sup> Value): 90.09 (2014) Global Impact Factor (GIF): 0.652 (2015).

*Problems of Education in the 21st Century* is an international, periodical, peer reviewed scientific journal, issued by the SMC "Scientia Educologica" in Cooperation with Scientia Socialis. PEC is published bimonthly.

Address: Scientific Methodical Centre "Scientia Educologica"

Donelaičio Street 29, LT-78115 Siauliai, Lithuania

E-mail: problemsofeducation@gmail.com

Phone: +370 687 95668

WEB pages: http://www.jbse.webinfo.lt/Problems of Education.htm; http://www.scientiasocialis.lt/pec/

**ISSN** 1822-7864